



Mit-0506.ST25.txt
SEQUENCE LISTING

<110> Chen, Jianzhu
Ge, Qing
Eisen, Herman

<120> Influenza Therapeutic

<130> 0492611-0506

<140> 10/674,159

<141> 2003-09-29

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<170> PatentIn version 3.2

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gccataggcc aggtttcaag gcccatgttc ttgtatgtga ggacaaatgg aacctcaaaa	1740
attaaaatga aatggggaat ggagatgagg cgttgctctc tccagtcact tcaacaaatt	1800
gagagtatga ttgaagctga gtcctctgtc aaagagaaaag acatgaccaa agagttcttt	1860
gagaacaaat cagaaacatg gccattgga gagtctccca aaggagtgga ggaaagtctc	1920
attgggaagg tctgcaggac ttatttagca aagtcggtat ttaacagctt gtatgcatct	1980
ccacaactag aaggattttc agctgaatca agaaaactgc ttcttatcgt tcaggctctt	2040
agggacaatc tggaacctgg gacctttgat cttggggggc tatatgaagc aattgaggag	2100
tgccctaatta atgatccctg ggttttgctt aatgcttctt ggttcaactc cttccttaca	2160
catgcattga gttagtgtg gcagtgtac tatttgctat ccatactgtc caaaaaagta	2220

ccttgtttct act

2233

<210> 122

<211> 2183

<212> DNA

<213> Influenza virus type A PA segment

<400> 122

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agcgaaagca ggtactgatt caaaatggaa gattttgtgc gacaatgctt caatccgatg      60
attgtcgagc ttgcggaaaa ggcaatgaaa gagtatggag aggacctgaa aatcgaaaca      120
aacaaatttg cagcaatatg cactcacttg gaagtgtgct tcatgtattc agattttcac      180
ttcatcgatg agcaaggcga gtcaatagtc gtagaacttg gcgatccaaa tgcacttttg      240
aagcacagat ttgaaataat cgaggggaaga gatcgacaaa tagcctggac agtaataaac      300
agtatttgca aactacagg ggctgagaaa ccaaagtffc taccagattt gtatgattac      360
aagaagaata gattcatcga aattggagta acaaggagag aagttcacat atactatctg      420
gaaaaggcca ataaaattaa atctgagaag acacacatcc acattttctc attcactggg      480
gaggaaatgg ccacaaaggc cgactacact ctcgatgaag aaagcagggc taggatcaaa      540
accaggctat tcaccataag acaagaaaatg gctagcagag gcctctggga ttcctttcgt      600
cagtccgaga gaggcgaaga gacaattgaa gaaagatttg aaatcacagg aacaatgcgc      660
aagcttgccg accaaagtct cccgccaac ttctccagcc ttgaaaattt tagagcctat      720
gtggatggat tcgaaccgaa cggctacatt gagggcaagc tttctcaaat gtccaaagaa      780
gtaaatgcta gaattgaacc ttttttgaaa tcaacaccac gaccacttag acttccggat      840
gggcctccct gttctcagcg gtccaaattc ctgctgatgg atgccttaa attaagcatt      900
gaggacccaa gtcatgaggg agaggggata ccgctatatg atgcaatcaa atgcatgaga      960
acattctttg gatggaagga acccaatggt gttaaaccac acgaaaaggg aataaatcca     1020
aattatcttc tgtcatggaa gcaagtactg gcagaactgc aggacattga gaatgaggag     1080
aaaattccaa ggactaaaaa tatgaagaaa acgagtcagt taaagtgggc acttggtgag     1140
aacatggcac cagaaaagggt agactttgac gattgtaaag atgtaggcga tttgaagcaa     1200
tatgatagtg atgaaccaga attgaggtcg cttgcaagtt ggattcagaa tgagttcaac     1260
aaggcatgtg aactgaccga ttcaagctgg atagagctcg atgagattgg agaagatgcg     1320
gctccaattg aacacattgc aagcatgaga aggaattatt tcacagcaga ggtgtctcat     1380
tgcagagcca cagaatacat aatgaagggg gtgtacatca atactgcctt gcttaatgca     1440
tcctgtgcag caatggatga tttccaatta attccaatga taagcaagtg tagaactaag     1500
gaggggaaggc gaaagaccaa tttgtacggt ttcatcataa aaggaagatc ccacttaagg     1560
aatgacaccg atgtggtaaa ctttgtgagc atggagtttt ccctcactga cccaagactt     1620

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Mit-0506.ST25.txt

```

gaaccacaca aatgggagaa gtactgtgtt cttgaggtag gagatatgct tctaagaagt 1680
gccataggcc atgtgtcaag gcctatgttc ttgtatgtga ggacaaatgg aacctcaaaa 1740
attaaaatga aatgggggat ggaaatgagg cgttgcctcc ttcagtcact tcaacaaatc 1800
gagagtatga ttgaagctga gtcctctgtc aaggagaaaag acatgaccaa agagtctttt 1860
gaaaacaaat cagaaacatg gcccgttggg gagtcccca aagtcggtat tcaacagctt 1920
gtatgcatct ccacaactgg aaggattttc agctgaatca agaaaactgc ttcttatcgt 1980
tcaggctctt agggacaacc tggaacctgg gacctttgat cttggggggc tatatgaagc 2040
aattgaggag tgcctgatta atgatccctg ggttttgctt aatgcttctt ggttcaactc 2100
cttcctcaca catgcattga gatagttgtg gcaatgctac tatttgctat ccatactgtc 2160
caaaaaagta ccttgtttct act 2183

```

```

<210> 123
<211> 2233
<212> DNA
<213> Influenza virus type A PA segment

```

```

<400> 123
agcaaaagca ggtactgatc cgaaatggaa gaatttgtgc gacaatgctt caatccgatg 60
attgtcgagc ttgctgaaaa agcaatgaaa gagtatggag aggatcggaa aatcgaaaca 120
aacaattttg cagcaatatg cactcacttg gaagtatgct tcatgtattc agattttcat 180
ttcatcaatg agcaaggcga gtcaataata gtagagcttg atgatccaaa tgcacttttg 240
aagcacagat ttgaaataat agaggggaaga gatcgacaaa tggcctggac agtagtaaac 300
agtatttgca aactacagg agctgagaaa ccgaagtttc tgccagattt gtatgattac 360
aaggagaata gattcatcga gattggagtg acaaggaggg aagtccacat atactatctt 420
gaaaaggcca ataaaattaa atctgagaag acacacatcc acattttctc attcactggg 480
gaagaaatgg ccacaaaggc cgactacact ctcgatgagg aaagcagggc taggatcaag 540
accagactat tcaccataag acaagaaatg gctagcagag gcctctggga ttcctttcgt 600
cagtccgaaa gaggcgaaga aacaattgaa gaaagatttg aaatcacagg gacaatgcgc 660
aggctcgccg accaaagtct cccgccgaac ttctcctgcc ttgagaattt tagagcctat 720
gtggatggat tcgaacccaa cggtctacatt gagggcaagc tttctcaa atgtccaaagaa 780
gtaaatgcta aaattgagcc ttttctgaaa acaacaccaa gaccaattaa acttccggat 840
gggcctcctt gctctcagcg gtccaaattc ctgctgatgg atgctttaaa attaagcatt 900
gaggacccaa gtcacgaagg agaggggaata ccactatatg atgcatcaa gtgtatgaga 960
acattctttg gatggaaaga accctatggt gttaaaccac acgataaggg aataaatcca 1020
aattatctgc tgtcatggaa gcaattactg gcagaactgc aggacattga gaatgaggag 1080

```

Mit-0506.ST25.txt

```

aagattccaa gaaccaaaaa catgaagaaa acgagtcagc taaagtgggc acttggtgag 1140
aacatggcac cagagaaggt agactttgac gactgtagag atataagcga tttgaagcaa 1200
tatgatagtg atgaacctga attaaggtca ctttcaagct ggatccagaa tgagtccaac 1260
aaggcatgcg agctgaccga ttcaatctgg atagagctcg atgagattgg agaagatgtg 1320
gctccaattg aacacattgc aagcatgaga aggaattact tcacagcaga ggtgtctcag 1380
tgcagagcca cagaatatat aatgaagggg gtatacatta atactgcctt gcttaatgca 1440
tcctgtgcag caatggacga tttccaacta attcccatga taagcaaatg tagaactaaa 1500
gaggggaaggc gaaagaccaa tttatatggt ttcatacataa aagggaagatc tcacttaagg 1560
aatgacaccg acgtggtaaa ctttgtgagc atggagtttt ctctcactga cccaagactt 1620
gagccacaca aatgggagaa gtactgtgtt cttgagatag gagatatgct actaagaagt 1680
gccataggcc aggtgtcaag gcccatgttc ttgtatgtga ggacaaatgg aacatcaaag 1740
attaaaatga aatggggaat ggagatgagg cgttgccctc ttcagtcact ccaacaaatc 1800
gagagtatga ttgaagccga gtcctctgtc aaggagaaaag acatgaccaa agagtttttc 1860
gagaataaat cagaaacatg gcccatgtga gagtccccca aaggagtgga agaaggttcc 1920
attgggaagg tctgcaggac tttattagcc aagtcggtat tcaatagcct gtatgcatct 1980
ccacaattag aaggattttc agctgaatca agaaaactgc ttcttgtcgt tcaggctctt 2040
agggacaatc ttgaacctgg gacctttgat cttggggggc tatatgaagc aattgaggag 2100
tgcttgatta atgatccctg ggttttgctt aatgcgtctt ggttcaactc cttcctaaca 2160
catgcattaa gatagtgtg gcaatgctac tatttgctat ccatactgtc caaaaaagta 2220
ccttgtttct act 2233

```

```

<210> 124
<211> 2209
<212> DNA
<213> Influenza virus type A PA segment

```

```

<400> 124
atggaagatt ttgtacgaca atgctttaat ccgatgattg tcgaacttgc ggaaaaggca 60
atgaaagagt atggagagga tcttaaaatc gaaacaaaca aatttgcagc aatatgcact 120
cacttggaag tatgcttcat gtattcagat tttcatttca tcaatgagca aggcgagtca 180
atagtggtag aacttgatga tccaaatgca cttttgaagc acagatttga aataatagag 240
ggaagagacc gcacaatggc ctggacagta gtaaacagta tttgcaacac cacaggagct 300
gagaaaccga agtttctgcc agatttgtat gattacaagg agaatagatt catcgagatt 360
ggagtgacaa ggagagaagt ccacatatac taccttgaaa aggccaataa aattaaatct 420
gagaatacac acatccacat tttctcattc actgggggaag aaatggccac aaaggccgac 480

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Mit-0506.ST25.txt

tacactctcg atgaggaaaag caggggctagg atcaaaacca gactattcac cataagacaa	540
gagatggcca acagaggcct ctgggattcc tttcgtcagt ccgaaagagg cgaagaaaca	600
attgaagaaa gatttgaaat cacagggaca atgcgcaggc ttgccgacca aagtctccccg	660
ccgaacttct cctgccttga gaattttaga gcctatgtgg atggattcga accgaacggc	720
tacattgagg gcaagctttc tcaaagtgtc aaagaagtga atgcaaaaat tgaacctttt	780
ctgaaaacaa caccaagacc aattagactt ccggatgggc ctcttggtt tcagcgggtcc	840
aaattccttc tgatggatgc tttaaagtta agcattgagg atccaagtca cgaggggggag	900
ggaataccac tatatgatgc gatcaaatgc atgagaacat tttttggatg gaaagaaccc	960
tatattgtta aaccacacga aaaggggata aatccaaatt atctgctgtc atggaagcaa	1020
gtactggcag aactgcagga cattgaaaat gaggagaaaa ttccaagaac taaaaacatg	1080
aagaaaacga gtcagctaaa gtgggcactt ggtgagaaca tggcaccaga gaaggtagac	1140
tttgacaact gtagagacgt aagcgatttg aagcaatatg atagtgcga acctgaatta	1200
aggtcacttt caagctggat ccagaatgag ttcaacaagg catgcgagct gaccgattca	1260
acttggatag agctcgatga gattggagaa gacgtggctc caattgaata cattgcaagc	1320
atgagaagga attacttcac agcagagggt tcccattgca gagccacaga atatataatg	1380
aaggggggat acattaatac tgccttgctt aatgcatcct gtgcagcaat ggacgatttc	1440
caactaattc ccatgataag caagtgtaga actaaagaag gaaggcgaaa gaccaattta	1500
tatggcttca tcataaaagg aagatctcac ttaaggaatg acaccgacgt ggtaaacttt	1560
gtgagcatgg agttttctct cactgacccg agacttgagc cacacaaatg ggagaaatac	1620
tgtgtccttg agataggaga tatgtacta agaagtgtc taggccagat gtcaaggcct	1680
atgttcttgt atgtgagaac aaatggaaca tcaaagatta aaatgaaatg gggaatggag	1740
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tctgtcaagg agaaagacat gaccaaagag ttttttgaga ataaatcaga aacatggccc	1860
attgggggagt cccccaaggg agtggaagat ggttccattg ggaaggctctg caggacttta	1920
ttggccaagt cggatttcaa tagcctgtat gcatccccgc aattggaagg gttttcagct	1980
gagtcaagaa aactgcttct tgtcgttcag gctcttaagg acaatcttga acctggaacc	2040
tttgatcttg aggggctata tgaagcaatt gaggagtgcc tgattaatga tccctggggt	2100
ttgcttaatg cgtcgtgggt caactccttc ctaacacatg cattaagata gttgtggcaa	2160
tgctactatt tgctatccat actgtccaaa aaagtacctt gtttctact	2209

<210> 125
 <211> 2233
 <212> DNA

<213> Influenza virus type A PA segment

<400> 125

agcaaaagca ggtactgatc caaaatggaa gactttgtgc gacaatgctt caatccaatg	60
attgtcgagc ttgcggaaaa gacaatgaag gagtatgggg aagatccgaa gattgaaaca	120
aacaagttcg ctgcaatatg cacacactta gaagtctgct tcatgtattc agacttccat	180
ttcattgacg aacgaggcga atcaataatt gtggaatctg gtgatccgaa tgcattgttg	240
aaacaccggt ttgaaataat tgaaggaaga gaccgagcaa tggcctggac agtgggtgaat	300
agcatctgca acaccacagg agtcgataaa cccaaatttc ttccggatct atacgactac	360
aaggaaaacc gattcactga aattggtgtg acacggaggg aagttcatat atattactta	420
gagaaagcta acaagataaa atccgagaaa acacatatcc acatcttctc attcactgga	480
gaagaaatgg ccactaaagc tgactacacc cttgatgaag agagcagggc aagaatcaaa	540
accagactat tcaccataag acaggaaatg gcaagcaggg gtctatggga ctcttttcgt	600
cagtccgaga gaggcgaaga gacaattgaa gaaagatttg aaatcacagg gaccatgcgt	660
aggcttgccg accaaagtct cccacctaac ttctccagcc ttgaaaactt tagagcctat	720
gtggatggat ttaaaccgaa cggctgcatt gagggcaagc tttctcaa at gtcgaaagaa	780
gtgaacgcc aatttgagcc atttctgaag acaacaccac gtcctctcag attgcctgat	840
ggacctccct gctcccagcg gtcgaaattc ttgctgatgg atgctctgaa attaagcatt	900
gaggaccgga gccatgaggg ggaggggata ccgctatatg atgcatcaa atgcatgaaa	960
acattctttg gctggagaga gcccacatc atcaaaccac acgaaaaagg cataaatcca	1020
aattatctcc tggcttgga gcaaggctg gcagaactcc aggatattga aaatgaggat	1080
aaaatcccaa aaacaaagaa catgaagaaa acaagccaat taatgtgggc actcggagag	1140
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taccacagtg atgagccaga gcttagatcg ctagcaagct ggatccagaa tgagttcaac	1260
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gccccattg agcacattgc aagtatgaga aggaactact tcacagcgga ggtgtcccat	1380
tgcaagggcta ctgagtacat aatgaagggg gtttacataa atacagcttt gctcaatgca	1440
tcttgtgcag ccatggatga cttccaactg attccaatga taagcaa atg cagaacaaaa	1500
gaaggaagga ggaggacaaa cctgtatggg ttcatgttaa aaggaaggtc ccatttgaga	1560
aatgatactg acgtggtgaa ctttgtgagt atggaattct cccttactga cccaaggctg	1620
gagccacaca aatgggaaaa gtactgtgtt cttgaaatag gggaaatgct cttgcggact	1680
gcaataggtc aagtgtcaag gcccatgttc ctgtatgtga gaaccaacgg aacctcaaaa	1740
attaagatga aatgggggat ggaaatgagg cgctgccttc ttcaatctct tcaacagatt	1800

Mit-0506.ST25.txt

gagagcatga tcgaggctga gtcttctatc aaagagaaag acatgaccaa agaattcttt	1860
gaaaacagat cggagacatg gccaatggga gagtcaccta agggagtggga ggaaggctcc	1920
atcgggaagg tgtgcagaac cttactagca aaatctgtgt tcaacagcct atattcatct	1980
ccacaactcg aaggattttc agctgaatcg agaaaactac tactcattgt tcaagcactt	2040
agggacaacc tggaacctgg aaccttcgat cttgaagggc tatatggagc aattgaggag	2100
tgcctgatta atgatccctg ggttttgctt aatgcatctt ggttcaactc cttcctcaca	2160
catgcactaa gatagtgtg gcaatgctac tatttgctat ccatactgtc caaaaaagta	2220
ccttgtttct act	2233

<210> 126

<211> 2233

<212> DNA

<213> Influenza virus type A PA segment

<400> 126

agcaaaagca ggtactgatc cgaaatggaa gactttgtgc gacaatgctt caatccaatg	60
attgtcagagc ttgcggaaaa gacaatgaag gaatatgggg aagacccgaa aattgaaaca	120
aataagttcg ctgcaatatg cacacactta gaagtctgct tcatgtattc agacttccat	180
ttcattgacg aacgaggcga atcaataatt gtggaatctg gtgatccaaa tgcattgttg	240
aagcacaggt ttgaaataat tgaaggaaga gaccgagcaa tggcctggac agtggtgaat	300
agcatctgca acacaacagg agtcgataaa cccaaatttc ttccggatct atacgactac	360
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gaagaaatgg ccactaaagc tgactacacc cttgatgaag agagcagggc aagaataaaa	540
accagactat tcaccataag acaggaaaatg gcaagcaggg gtctatggga ttcctttcgt	600
cagtccgaga gaggcgaaga gacaattgaa gaaagatttg aaatcacagg gaccatgcgt	660
aggcttgccg accaaagtct cccacctaac ttctccagcc ttgaaaactt tagagcctat	720
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gaggacccga gccatgaggg ggaggggata ccgctatatg atgcgataaa atgcatgaaa	960
acattcttcg gctggagaga gcccaacatc atcaagccac acgagaaggg cataaatccc	1020
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aaaatcccaa aaacaaagaa catgaagaaa acaagccaat taatgtgggc actcggggag	1140
aatatggcac cggaaaaaatt ggactttgag gactgcaaag atattggcga tctgaaacag	1200

Mit-0506.ST25.txt

tatcaaagtg	atgagccaga	gctcagatcg	atagcaagct	ggatccagag	tgagttcaac	1260
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tcttgtgcag	ccatggatga	cttccaactg	attccaatga	taagcaaata	cagaacaaaa	1500
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aatgatactg	acgtgggtgaa	ctttgtgagt	atggaattct	cccttactga	cccaaggctg	1620
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tgctgatta	atgatccctg	ggttttgctt	aatgcatctt	ggttcaactc	cttcctcaca	2160
catgcactaa	aatagttgtg	gcaatgctac	tatttgctat	ccatactgtc	caaaaaagta	2220
ccttgtttct	act					2233

<210> 127

<211> 2182

<212> DNA

<213> Influenza virus type A PA segment

<400> 127

agcgaaagca	ggtactgatc	caaaatggaa	gattttgtgc	gacaatgctt	caatccgatg	60
attgtcgagc	ttgcggaaaa	aacaatgaaa	gagtatgggg	aggacctgaa	aatcgaaaca	120
aacaaatttg	cagcaatatg	cactcacttg	gaagtatgct	tcatgtattc	agatttccac	180
ttcatcaatg	agcaaggcga	gtcaataatc	gtagaacttg	gtgatcctaa	tgactttttg	240
aagcacagat	ttgaaataat	cgagggaaga	gatcgacaaa	tggcctggac	agtagtaaac	300
agtatttgca	acactacagg	ggctgagaaa	ccaaagtttc	taccagattt	gtatgattac	360
aaggaaaata	gattcatcga	aattggagta	acaaggagag	aagttcacat	atactatctg	420
gaaaaggcca	ataaaattaa	atctgagaaa	acacacatcc	acattttctc	gttactggg	480
gaagaaatgg	ccacaaaggc	cgactacact	ctcgatgaag	aaagcagggc	taggatcaaa	540
accaggctat	tcaccataag	acaagaaaatg	gccagcagag	gcctctggga	ttcctttcgt	600

Mit-0506.ST25.txt

cagtccgaga gaggagaaga gacaattgaa gaaaggtttg aaatcacagg aacaatgcg	660
aagcttgccg accaaaagtct cccgccgaac ttctccagcc ttgaaaattt tagagcctat	720
gtggatggat tcgaaccgaa cggctacatt gagggcaagc tgtctcaa	780
gtaaatgcta gaattgaacc ttttttgaaa acaacaccac gaccacttag acttccgaat	840
gggcctccct gttctcagcg gtccaaattc ctgctgatgg atgccttaaa attaagcatt	900
gaggacccaa gtcataaagg agaggggaata ccgctatatg atgcaatcaa atgcatgaga	960
acattctttg gatggaagga acccaatgtt gttaaaccac acgaaaaggg aataaatcca	1020
aattatcttc tgtcatggaa gcaagtactg gcagaactgc aggacattga gaatgaggag	1080
aaaattccaa agactaaaaa tatgaaaaaa acaagtcagc taaagtgggc acttggtgag	1140
aacatggcac tatgatagt atgaaccaga attgaggtcg cttgcaagtt ggattcagaa	1200
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<210> 128
 <211> 2233
 <212> DNA
 <213> Influenza virus type A PA segment

<400> 128	
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Mit-0506.ST25.txt

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Mit-0506.ST25.txt

ccacaactgg aaggattttc agctgaatca agaaaactgc ttcttatcgt tcaggctctt	2040
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<210> 129

<211> 2183

<212> DNA

<213> Influenza virus type A PA segment

<400> 129

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aacaaattcg cagcaatatg cacacatttg gaagtgtgtt tcatgtattc agatttccac	180
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Mit-0506.ST25.txt

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caaaaaagta ccttgtttct act	2183

<210> 130

<211> 2090

<212> DNA

<213> Influenza virus type A PA segment

<400> 130

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catttggaag tgtgtttcat gtattcagac tttcacttca tcgatgagcg aggcgaaatca	180
ataattgtag aatccggaga tccgaatgcc ctcttgaagc acagatttga aataattgag	240
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Mit-0506.ST25.txt

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<210> 131

<211> 2133

<212> DNA

<213> Influenza virus type A PA segment

<400> 131

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agtatctgca acaccacaag agctgaaaaa cccaagttcc tcccagattt gtacgactat	360
aaagagaaca ggtttggtga aattgggtgtg acaaggagag aagttcacat atactacttg	420

Mit-0506.ST25.txt

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ggttcaactc	cttccttaca	catgcactaa	agtagttgtg	gcaatgctac	tatttgctat	2100
ccatactgtc	caaaaaagta	ccttgtttct	act			2133

<210> 132
 <211> 2233
 <212> DNA

<213> Influenza virus type A PA segment

<400> 132

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Mit-0506.ST25.txt

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<210> 133

<211> 1635

<212> DNA

<213> Influenza virus type A PA Segment

<400> 133

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tacttcacag cagaagtgtc aactgcccgg gctactgagt atataatgaa gggagtgtat	900
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atgataagca aatgcagaac aaaagaagg agacggaaaa caaacctgta tgggttcatt	1020
atcaagggaa ggtcccattt gaggaatgat actgatgtgg taaactttgt gagcatggaa	1080
ttttctctta cagacccgaa actggaacca cacaagtggg agaagtactg tgttcttgaa	1140
gtaggggaca tgctcctgag aacttcaata ggccagggtgt caaggcccat gttcctatac	1200

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gtgagaacca atggaacctc caaaattaaa atgaaatggg gaatggagat gaggcgttgc	1260
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aaggacatga ccaaagaatt ttttgaaaac aagtcggaga cgtggccgat tggagagtca	1380
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gtgttcaaca gcttgtatgc atctccacaa ctcgaggggt tttcagctga atcaagaaaa	1500
ctgttactca ttgttcaggc acttagggac aacctggaac ctggaacctt cgacattgaa	1560
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<210> 138
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 <400> 145
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 <210> 146

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 <400> 146
 ucgcuuucgu cc 12

 <210> 147
 <211> 12
 <212> DNA
 <213> Influenza virus type a mRNA

 <400> 147
 agcgaaagca gg 12

 <210> 148
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 <400> 148
 agcgaaagca gg 12

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 <400> 149
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 <210> 150
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 <220>
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 <400> 150
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 <210> 151
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 <220>
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 <400> 151
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 <210> 152
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<220>
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 ug 62

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 <220>
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 <400> 153
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 <210> 154
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 <220>
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 <400> 154
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 <210> 155
 <211> 60
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 <220>
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 <220>
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 <210> 157
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<220>
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 <400> 157
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<220>
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<210> 159
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<220>
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<220>
 <223> construct targeted to influenza virus type A NP segment and green fluorescent protein
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<210> 162
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<212> DNA
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<210> 163
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 <400> 163
 cgctcagaca tgagaacaga atgg 24

<210> 164
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 <400> 164
 taactagcct gactagcaac ctc 23

<210> 165
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 <211> 25
 <212> DNA
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 <220>
 <223> influenza virus type A PA vRNA

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 <210> 170
 <211> 33
 <212> DNA
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 <220>
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 <210> 171
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 <212> DNA
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 <220>
 <223> influenza virus type A PB 1 RNA

 <400> 171
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 <210> 172
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 <212> DNA
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 <220>
 <223> influenza virus type A PB 1 RNA

<400> 172
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<210> 173
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<220>
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<210> 177
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<220>
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<400> 177
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<210> 178
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<220>
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<400> 178
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<220>
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 <400> 185
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<210> 186
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 <400> 186
 tcttgcaagt atattatcg 19

<210> 187
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 <400> 188

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<210> 195
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<210> 202
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<210> 206
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 <400> 224
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<400> 225
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<210> 226
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<400> 231
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<210> 232
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<400> 232
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